

Unit 2: Linear Motion

Free Fall Activity

$$v_f = v_i + gt$$

v_f = final velocity (m/s)

v_i = initial velocity (m/s)

g = acceleration due to gravity (9.81 m/s²)

t = time falling (s)

$$x = (1/2)gt^2$$

x = distance (m)

g = acceleration due to gravity (9.81 m/s²)

t = time falling (s)

	Time 1	Time 2	Time 3	Avg. Time
Height A				

Calculate v_f

Calculate x

	Time 1	Time 2	Time 3	Avg. Time
Height B				

Calculate v_f

Calculate x

	Time 1	Time 2	Time 3	Avg. Time
Height C				

Calculate v_f

Calculate x

	Time 1	Time 2	Time 3	Avg. Time
Height D				

Calculate v_f

Calculate x

	Time 1	Time 2	Time 3	Avg. Time
Height E				

Calculate v_f

Calculate x